# Animal Learning & Behavior

**M. R. D'Amato**, *Editor*
*Rutgers University*

*Associate Editors*

Douglas K. Candland, *Bucknell University*
Stewart H. Hulse, *Johns Hopkins University*
Dorothy E. McAllister, *Northern Illinois University*
John W. Moore, *University of Massachusetts*
Michael E. Rashotte, *Florida State University*
Shepard Siegel, *McMaster University*
Norman E. Spear, *SUNY, Binghamton*
Matthew Yarczower, *Bryn Mawr College*

**Anne Matson Dossett**
*Managing Editor*

Volume 8

Published quarterly in February, May, August, and November by
**THE PSYCHONOMIC SOCIETY, INC.**, 2904 Guadalupe Street, Austin, Texas 78705

*Publication No. 956180 (ISSN 0090-4996)*
*Second Class Postage Paid at Austin, Texas 78710*
*Copyright © 1980 and 1981 by THE PSYCHONOMIC SOCIETY, Inc.*

**STAFF IN NEW BRUNSWICK**

Joan Olmizzi, *Editorial Assistant*

**STAFF IN AUSTIN**

Valerie K. Foster
Nancy C. Glass
Dreanne M. Grenier
Virginia T. Hagerty
John J. Hartzell, Jr.
E. Melanie W. Kittrell
Patricia J. Kittrell
Richard W. Lambert
Mary K. Plowman
Robert P. Sanford
Sharon Tarver
Roberta L. Thiessen
William Walker
Rodney G. Webre
C. E. Wheeless

## CONTENTS OF VOLUME 8


Abbott, B. See Badia, P.
Allen, R. See Kremer, E.
Allison, J. **Conservation, matching, and the variable-interval schedule** ..... 185
Anderson, D. C., Crowell, C. R., Wikoff, M. B., & Lupo, J. V. **Activity during prior shock determines subsequent shock-elicited fighting in the rat** 664
Anderson, R. See Cain, N. W.
Anthony, S. G. See Terry, W. S.
Ayres, J. J. B. See Witcher, E. S.
Badia, P., & Abbott, B. **Does shock modifiability contribute to preference for signaled shock?**..... 110
Baenninger, R. See Cain, N. W.
Baker, C. S. See Riley, A. L.
Barfield, R. J. See Geyer, L. A.
Baumgardner, D. J., Ward, S. E., & Dewsbury, D. A. **Diurnal patterning of eight activities in 14 species of muroid rodents**..... 322
Beatty, W. W., & Shavalia, D. A. **Rat spatial memory: Resistance to retroactive interference at long retention intervals**..... 550
Benton, D. See Brain, P. F.
Biehl, D. See Tomie, A.
Blackman, D. E. See Richards, J. J.
Blanchard, D. C. See Blanchard, R. J.
Blanchard, R. J., Kleinschmidt, C. F., Fukunaga-Stinson, C., & Blanchard, D. C. **Defensive attack behavior in male and female rats** ..... 177
Blumer, E. S. See Candland, D. K.
Boedeker, C. L. See Ludvigson, H. W.
Bolles, R. C. See Bouton, M. E.
Bourland, G. See Miller, J. T.
Bouton, M. E., & Bolles, R. C. **Conditioned fear assessed by freezing and by the suppression of three different baselines**..... 429
Brain, P. F., Benton, D., Howell, P. A., & Jones, S. E. **Resident rats' aggression toward intruders** .. 331
Brooks, C. I. **Effect of prior nonreward on subsequent incentive growth during brief acquisition** ... 143
Bryan, R. G. See Spear, N. E.
Buckiewicz, J. See D'Amato, M. R.
Burdette, D. R. See Rosellini, R. A.
Burger, P. A. See Halas, E. S.
Butcher, L. L. See Wilson, W. J.
Cain, N. W., Anderson, R., Stein, L., & Jessen, C. **Effects of prior social experience on agonistic responding by Siamese fighting fish (*Betta splendens*)** 491
Cain, N. W., & Baenninger, R. **Social organization and the maintenance of aggressive behavior in community-housed male Siamese fighting fish (*Betta splendens*)**..... 171
Cain, N. W., Jessen, C., & Flanagan, M. **Social responsiveness and physical space as determinants of agonistic behavior in *Betta splendens***..... 497
Candland, D. K., Blumer, E. S., & Mumford, M. D. **Urine as a communicator in a New World primate, *Saimiri sciureus***..... 468
Capaldi, E. J., Verry, D. R., & Davidson, T. L. **Memory, serial anticipation pattern learning, and transfer in rats**..... 575
Capaldi, E. J., Verry, D. R., & Davidson, T. L. **Why rule encoding by animals in serial learning remains to be established** ..... 691
Chiaia, N. L. See Salafia, W. R.
Chiszar, D., Wellborn, S., Wand, M. A., Scudder, K. M., & Smith, H. M. **Investigatory behavior in snakes, II: Cage cleaning and the induction of defecation in snakes** ..... 505
Chiszar, D. A. See Spear, N. E.
Collins, R. L. See Gokey, D. S.
Colwill, R. M., & Dickinson, A. **Short-term retention of "surprising" events following different training conditions** ..... 561
Concannon, J. T., Riccio, D. C., & McKelvey, J. **Pavlovian conditioning of fear based upon hormonal mediation of prior aversive experience**..... 75
Coombes, S. See Revusky, S.
Cotton, M. M. See Mackintosh, N. J.
Crawford, L. L., Steele, K. M., & Malone, J. C., Jr. **Gradient form and sequential effects during generalization testing in extinction**..... 245
**Erratum** ..... 400
Cronin, P. B. **Reinstatement of postresponse stimuli prior to reward in delayed-reward discrimination learning by pigeons**..... 352
Crowell, C. R. See Anderson, D. C.
D'Amato, M. R., & Buckiewicz, J. **Long-delay, one-trial conditioned preference and retention in monkeys (*Cebus apella*)**..... 359
Davidson, T. L. See Capaldi, E. J. (2)
Davis, H., & Shattuck, D. **Transfer of conditioned suppression and conditioned acceleration from instrumental to consummatory baselines** ..... 253
DeLong, R. E., & Grisham, M. G. **Rats show no preference between free and earned water in an advance-response procedure**..... 129
DePaulo, P. See Gaioni, S. J.
Desmond, J. E., Romano, A. G., & Moore, J. W. **Amplitude of the rabbit's unconditioned nictitating membrane response in the presence of a conditioned inhibitor**..... 225
Deweer, B., Sara, S. J., & Hars, B. **Contextual cues and memory retrieval in rats: Alleviation of forgetting by a pretest exposure to background stimuli** .. 265
Dewsbury, D. A. See Baumgardner, D. J.
Dickinson, A. **The US-omission effect and static-cue conditioning: A comment on Kremer, Specht, and Allen**..... 686
Dickinson, A. See Colwill, R. M.
Dickinson, A. See Mackintosh, N. J.
Domjan, M., & Gemberling, G. A. **Effects of expected vs. unexpected proximal US preexposure on taste-aversion learning**..... 204
Duncan, H. See Locurto, C. M.
Duncan, H. J. See Gibbon, J.
Edmon, E. L., Lucki, I., & Grisham, M. G. **Choice responding following multiple schedule training** .. 287
Edwards, C. A. See Zentall, T. R.
Eiserer, L. A. **Development of filial attachment to static visual features of an imprinting object**..... 159
Eiserer, L. A., & Swope, R. L. **Acquisition of behavioral control by static visual features of an imprinting object: Species generality** ..... 481
Eslinger, P. J., & Ludvigson, H. W. **Are there constraints on learned responses to odors from rewarded and nonrewarded rats?**..... 452
Farrell, L. See Gibbon, J.
Flaherty, C. F., Uzwiak, A. J., Levine, J., Smith, M., Hall, P., & Schuler, R. **Apparent hyperglycemic and hypoglycemic conditioned responses with exogenous insulin as the unconditioned stimulus** ..... 382

Flanagan, M. See Cain, N. W.
Forbes, D. T., & Holland, P. C. **Positive and negative patterning after CS preexposure in flavor aversion conditioning** ..... 595
Forbes, D. T. See Holland, P. C.
Fukunaga-Stinson, C. See Blanchard, R. J.
Gaioni, S. J., DePaulo, P., & Hoffman, H. S. **Effects of group rearing on the control exerted by an imprinting stimulus** ..... 673
Gardner, B. T. See Wood, S.
Gardner, R. A. See Wood, S.
Gemberling, G. A. See Domjan, M.
Geyer, L. A., & Barfield, R. J. **Regulation of social contact by the female rat during the postejaculatory interval** ..... 679
Gibbon, J., Farrell, L., Locurot, C. M., Duncan, H. J., & Terrace, H. S. **Partial reinforcement in autoshaping with pigeons** ..... 45
Gibbon, J. See Locurto, C. M.
Gokey, D. S., & Collins, R. L. **Conditioned inhibition in feature negative discrimination learning with pigeons** ..... 231
Gordon, W. C., & Mowrer, R. R. **An extinction trial as a reminder treatment following electroconvulsive shock** ..... 363
Gordon, W. C. See Spear, N. E.
Gormezano, I. See Scavio, M. J., Jr.
Graham, J. M., & Thiessen, D. D. **Social interactions in male gerbils, *Meriones unguiculatus*: Ultrasounds and open-field behavior** ..... 502
Grant, D. S. See Leccese, A. P.
Grisham, M. G. See DeLong, R. E.
Grisham, M. G. See Edmon, E. L.
Guldin, W. See Kessler, J.
Haggbloom, S. J. **Resistance to discrimination and subsequent resistance to extinction as a function of the sequence of partial S+ reward in differential conditioning** ..... 441
Haggbloom, S. J. **Reward sequence and reinforcement level as determinants of S− behavior in differential conditioning** ..... 424
Halas, E. S., Burger, P. A., & Sandstead, H. H. **Food motivation of rehabilitated malnourished rats: Implications for learning studies** ..... 152
Hall, G. **An investigation of ambiguous-cue learning in pigeons** ..... 282
Hall, P. See Flaherty, C. F.
Hampton, S. R. See McAllister, D. E.
Hars, B. See Deweer, B.
Hayden, M. See Tomie, A.
Hegvik, D. K. See Maki, W. S.
Hinson, R. E., & Siegel, S. **Trace conditioning as an inhibitory procedure** ..... 60
Hoffman, H. S., Marsh, R. R., & Stitt, C. L. **Tests of a principle of reflex modification: Modification of the human eyeblink-reflex is independent of the intensity of the reflex-eliciting stimulus** ..... 81
Hoffman, H. S. See Gaioni, S. J.
Hogan, D. E. See Zentall, T. R.
Holland, P. C., & Forbes, D. T. **Effects of compound or element preexposure on compound flavor aversion conditioning** ..... 199
Holland, P. C. See Forbes, D. T.
Homewood, J. See Ivinskis, A.
Host, K. C. See Salafia, W. R.
Howard, R. C. See Rilling, M. E.
Howell, P. A. See Brain, P. F.
Hulse, S. H. **The case of the missing rule: Memory for reward vs. formal structure in serial-pattern learning by rats** ..... 689
Hyson, R. L. See Riley, A. L.
Infurna, R. N. See Steinert, P. A.
Ivinskis, A., & Homewood, J. **Effects of preweaning environmental enrichment on later problem-solving behavior in rats** ..... 336
Jacobs, W. J. See Shapiro, K. L.
Jessen, C. See Cain, N. W. (2)
Johnson, C. M. See Rilling, M. E.
Jones, S. E. See Brain, P. F.
Kane, N. See Knutson, J. F.
Keir, R. See Mineka, S.
Keller, K. J. **Inhibitory effects of reinforcement and a model of fixed-interval performances** ..... 102
Kerriou, M. See Kessler, J.
Kessler, J., Markowitsch, H. J., Guldin, W., Riess, R., Pritzel, M., Streicher, M., & Kerriou, M. **Comparative analysis of delayed alternation learning in cats, mice, and guinea pigs** ..... 457
Kirsch, W. R. See Stevens, V. J.
Kleinschmidt, C. F. See Blanchard, R. J.
Knutson, J. F., & Kane, N. **The effects of social isolation on two shock-induced aggressive responses in rats** ..... 167
Krane, R. V. **Toxiphobia conditioning with exteroceptive cues** ..... 513
Kremer, E., Specht, T., & Allen, R. **Attenuation of blocking with the omission of a delayed US** ..... 609
Kruse, J. See Tomie, A.
Kulkosky, P. J. See Riley, A. L.
Ladak, F. See Pinel, J. P. J.
Lambert, R. W. See Salafia, W. R.
Leccese, A. P., & Grant, D. S. **Posttrial injections of strychnine sulfate: Facilitation of consolidation or retrieval?** ..... 258
Lett, B. T. **Taste potentiates color-sickness associations in pigeons and quail** ..... 193
Levine, J. See Flaherty, C. F.
Locurto, C. M., Duncan, H., Terrace, H. S., & Gibbon, J. **Autoshaping in the rat: Interposing delays between responses and food** ..... 37
Locurto, C. M. See Gibbon, J.
Logan, F. A. See Rodriguez, W. A.
LoLordo, V. M. See Shapiro, K. L.
Lombardi, B. R. **Enhanced neophobia induced by incentive contrast** ..... 617
Lucki, I. See Edmon, E. L.
Ludvigson, H. W., McCleary, P. G., & Boedeker, C. L. **Retention of a running response following appetitive acquisition, extinction, and discrimination** ..... 135
Ludvigson, H. W. See Eslinger, P. J.
Lupo, J. V. See Anderson, D. C.
Mackintosh, N. J., Dickinson, A., & Cotton, M. M. **Surprise and blocking: Effects of the number of compound trials** ..... 387
MacLennan, A. J. See Pinel, J. P. J.
Maki, W. S., & Hegvik, D. K. **Directed forgetting in pigeons** ..... 567
Malone, J. C., Jr. See Crawford, L. L.
Marcattilio, A. J. M., & Richards, R. W. **The maintenance of matching behavior when contrast occurs in multiple concurrent concurrent schedules of reinforcement** ..... 92
Markowitsch, H. J. See Kessler, J.
Marsh, R. R. See Hoffman, H. S.
Martin, G. M., & Timmins, W. K. **Taste-sickness associations in young rats over varying delays, stimulus, and test conditions** ..... 529
McAllister, D. E., McAllister, W. R., Hampton, S. R., & Scoles, M. T. **Escape-from-fear perfor-**

**mance as affected by handling method and an additional CS-shock treatment** ..... 417
McAllister, W. R. See McAllister, D. E.
McCleary, P. G. See Ludvigson, H. W.
McHose, J. H. See Peterson, D.
McKelvey, J. See Concannon, J. T.
McSweeney, F. K. **Differences between rates of responding emitted during simple and multiple schedules** ..... 392
Medin, D. L. **Proactive interference in monkeys: Delay and intersample interval effects are noncomparable** ..... 553
Miller, J. T., Saunders, S. S., & Bourland, G. **The role of stimulus disparity in concurrently available reinforcement schedules** ..... 635
Mineka, S., Keir, R., & Price, V. **Fear of snakes in wild- and laboratory-reared rhesus monkeys (*Macaca mulatta*)** ..... 653
Mitchell, D., Winter, W., & Moffitt, T. **Cross-modality contrast: Exteroceptive context habituation enhances taste neophobia and conditioned taste aversions** ..... 524
Moffitt, T. See Mitchell, D.
Moore, J. W. See Desmond, J. E.
Moriarty, K. M. See Wood, S.
Mowrer, R. R. See Gordon, W. C.
Mumford, M. D. See Candland, D. K.
Newlin, R. J. See Robles, L.
Palya, W. L., & Zacny, J. P. **Stereotyped adjunctive pecking by caged pigeons** ..... 293
Peterson, D., & McHose, J. H. **The residual deprivation effect in instrumental conditioning as a function of deprivation level at the time of exposure to the reinforcer** ..... 642
Peterson, G. B., Wheeler, R. L., & Trapold, M. A. **Enhancement of pigeons' conditional discrimination performance by expectancies of reinforcement and nonreinforcement** ..... 22
Pinel, J. P. J., Treit, D., Ladak, F., & MacLennan, A. J. **Conditioned defensive burying in rats free to escape** ..... 447
Pohl, R. W. See Revusky, S.
Price, V. See Mineka, S.
Pritzel, M. See Kessler, J.
Ramirez, J. J. See Salafia, W. R.
Reberg, D. **Reinforcing the occurrence or nonoccurrence of interim drinking** ..... 120
Revusky, S., Pohl, R. W., & Coombes, S. **Flavor aversions and deprivation state** ..... 543
Riccio, D. C. See Concannon, J. T.
Richards, J. J., & Blackman, D. E. **Effects of locus of a brief stimulus in a second-order schedule with pigeons** ..... 630
Richards, R. W. See Marcattilio, A. J. M.
Riess, R. See Kessler, J.
Riley, A. L., Hyson, R. L., Baker, C. S., & Kulkosky, P. J. **The interaction of conditioned taste aversions and schedule-induced polydipsia: Effects of repeated conditioning trials** ..... 211
Rilling, M. E., Howard, R. C., & Johnson, C. M. **Overshadowing by food of stimulus control by a keylight in a two-element serial compound** ..... 601
Robbins, R. J. **Learning and nonlearned neophobia enhancement both contribute to the formation of illness-induced taste aversions by deer mice (*Peromyscus maniculatus bairdi*)** ..... 534
Robles, L., Newlin, R. J., & Thomas, D. R. **Potentiation of attentional enhancement in the pigeon produced by a "blocking" stimulus** ..... 31
Rodgers, J. P., Tomie, A., & Thomas, D. R. **The effect of the controllability of auditory discriminative stimuli in the performance of go/no-go discriminations by pigeons** ..... 409
Rodriguez, W. A., & Logan, F. A. **Preference for punishment of the instrumental or the consummatory response** ..... 116
Roitblat, H. L. **Codes and coding processes in pigeon short-term memory** ..... 341
Romano, A. G. See Desmond, J. E.
Rosellini, R. A., & Burdette, D. R. **Meal size and intermeal interval both regulate schedule-induced water intake in rats** ..... 647
Rosenblum, L. A. See Swartz, K. B.
Salafia, W. R., Lambert, R. W., Host, K. C., Chiaia, N. L., & Ramirez, J. J. **Rabbit nictitating membrane conditioning: Lower limit of the effective interstimulus interval** ..... 85
Sandstead, H. H. See Halas, E. S.
Sara, S. J. See Deweer, B.
Saunders, S. S. See Miller, J. T.
Scavio, M. J., Jr., & Gormezano, I. **Classical-classical transfer: Effects of prior appetitive conditioning upon aversive conditioning in rabbits** ..... 218
Schuler, R. See Flaherty, C. F.
Scobie, S. R. See Wallace, J.
Scoles, M. T. See McAllister, D. E.
Scudder, K. M. See Chiszar, D.
Shapiro, K. L., Jacobs, W. J., & LoLordo, V. M. **Stimulus-reinforcer interactions in Pavlovian conditioning of pigeons: Implications for selective associations** ..... 586
Shattuck, D. See Davis, H.
Shavalia, D. A. See Beatty, W. W.
Siegel, S. See Hinson, R. E.
Smith, G. J. See Spear, N. E.
Smith, H. M. See Chiszar, D.
Smith, M. See Flaherty, C. F.
Spear, N. E., Smith, G. J., Bryan, R. G., Gordon, W. C., Timmons, R., & Chiszar, D. A. **Contextual influences on the interaction between conflicting memories in the rat** ..... 273
Spear, N. E. See Steinert, P. A.
Spear, N. E. See Wallace, J.
Specht, T. See Kremer, E.
Steele, K. M. See Crawford, L. L.
Stein, L. See Cain, N. W.
Steinert, P. A., Infurna, R. N., & Spear, N. E. **Long-term retention of a conditioned taste aversion in preweanling and adult rats** ..... 375
Steinert, P. A. See Wallace, J.
Stevens, V. J., & Kirsch, W. R. **Interocular transfer in pigeons of color discrimination but not motor response training** ..... 17
Stitt, C. L. See Hoffman, H. S.
Streicher, M. See Kessler, J.
Swartz, K. B., & Rosenblum, L. A. **Operant responding by bonnet macaques for color videotape recordings of social stimuli** ..... 311
Swope, R. L. See Eiserer, L. A.
Tachibana, T. **The open-field test: An approach from multivariate analysis** ..... 465
Taylor, G. T. **Sex pheromones and aggressive behavior in male rats** ..... 485
Terrace, H. S. See Gibbon, J.
Terrace, H. S. See Locurto, C. M.
Terry, W. S., & Anthony, S. G. **Arousal and short-term memory: Effects of caffeine and trial spacing on delayed-alternation performance** ..... 368

Thiessen, D. D. See Graham, J. M.
Thomas, D. R. See Robles, L.
Thomas, D. R. See Rodgers, J. P.
Timmins, W. K. See Martin, G. M.
Timmons, R. See Spear, N. E.
Tomie, A., Hayden, M., & Biehl, D. **Effects of response elimination procedures upon the subsequent reacquisition of autoshaping** ..... 237
Tomie, A., & Kruse, J. **Retardation tests of inhibition following discriminative autoshaping** ..... 401
Tomie, A. See Rodgers, J. P.
Trapold, M. A. See Peterson, G. B.
Treit, D. See Pinel, J. P. J.
Uzwiak, A. J. See Flaherty, C. F.
Verry, D. R. See Capaldi, E. J. (2)
Wallace, J., Steinert, P. A., Scobie, S. R., & Spear, N. E. **Stimulus modality and short-term memory in rats** ..... 10
Wand, M. A. See Chiszar, D.
Ward, S. E. See Baumgardner, D. J.
Wellborn, S. See Chiszar, D.
Wheeler, R. L. See Peterson, G. B.
Wickstra, L. L. See Zerbolio, D. J., Jr.
Wikoff, M. B. See Anderson, D. C.
Wilson, W. J., & Butcher, L. L. **A potential shock-reducing contingency in the backshock technique: Implications for learned helplessness** ..... 435
Winter, W. See Mitchell, D.
Witcher, E. S., & Ayres, J. J. B. **Systematic manipulation of CS-US pairings in negative CS-US correlation procedures in rats** ..... 67
Wood, S., Moriarty, K. M., Gardner, B. T., & Gardner, R. A. **Object permanence in child and chimpanzee** ..... 3
Zacny, J. P. See Palya, W. L.
Zentall, T. R., Hogan, D. E., & Edwards, C. A. **Oddity learning in the pigeon: Effect of negative instances, correction, and number of incorrect alternatives** ..... 621
Zerbolio, D. J., Jr., & Wickstra, L. L. **Instrumental avoidance acquisition by goldfish in a Y-maze using explicit and response-contingent cues** ..... 304

Announcements
Change in Editorship ..... 1
National Conference on the Use of On-Line Computers in Psychology ..... 511
Nominations for Editorships ..... 511
Special Issue of *Physiological Psychology* ..... 511

## ACKNOWLEDGMENTS

The *Journal* would like to express its sincere thanks to the many individuals who have given freely of their time and counsel. Their efforts are an essential ingredient in making the *Journal* a quality publication. The asterisk following an individual's name indicates that more than one paper was reviewed for the *Journal*.

Robert Ader, *Rochester University*
J. Alberts, *Indiana University*
James Allison, *Indiana University*
A. Amsel, *University of Texas, Austin*
John Archer, *Preston Polytechnic Institute*
John J. B. Ayres*, *University of Massachusetts*
P. Badia*, *Bowling Green State University*
R. Baenninger, *Temple University*
A. G. Baker, *McGill University*
Timothy Baker, *University of Wisconsin*
Edwin M. Banks, *University of Illinois*
Lewis M. Barker, *Baylor University*
George Barlow, *University of California, Berkeley*
John Batson, *Southern Methodist University*
William Baum, *University of New Hampshire*
Phillip J. Best*, *University of Virginia*
G. Biederman, *University of Toronto*
D. Bindra, *McGill University*
M. E. Bitterman, *University of Hawaii*
Robert Blanchard, *University of Hawaii*
Elliott Blass, *The Johns Hopkins University*
Donald Blough, *Brown University*
R. A. Boakes, *Sussex University*
Robert Boice*, *SUNY, Albany*
Mark Bouton, *University of Washington*
Paul Brain, *University College of Swansea*
Stephen Brake, *Montefiore Hospital and Medical Center*
J. A. Breuggeman, *Purdue University*
Charles I. Brooks, *Kings College*
Elizabeth Capaldi, *Purdue University*
E. J. Capaldi, *Purdue University*
D. E. Carter, *Georgetown University*
W. Cauly, *Vanderbilt University*
Jaw-Sy Chen, *SUNY, Albany*
Christopher Coe, *Stanford University*
Steven Cohen, *Bloomsburg State College*
Alexis Collier, *Ohio State University*
George Collier, *Rutgers University*
Charles Crowell, *University of Notre Dame*
Christopher Cunningham*, *University of Oregon*
Helen Daly, *SUNY, Oswego*
M. R. Denny, *Michigan State University*
Peter A. deVilliers, *Smith College*
Donald Dewsbury, *University of Florida*
A. Dickinson, *University of Sussex*
John Donahoe, *University of Massachusetts*
Nelson Donegan, *Yale University*
J. Eberhars, J. *Cambridge University*
David Edwards, *Emory University*
L. Eiserer, *Franklin & Marshall College*
E. Fantino, *University of California, San Diego*
Charles F. Flaherty*, *Rutgers University*
Owen Floody, *Bucknell University*
Joseph J. Franchina*, *Virginia Polytechnic Institute*
Peter Frey, *Northwestern University*
Gordon Gallup, Jr.*, *SUNY, Albany*
Peter F. Galvani, *SUNY, Brockport*
Richard C. Gonzalez, *Bryn Mawr College*
Leonard Green*, *Washington University*
G. Hall, *University of York*
Steve R. Hampton, *Northern Illinois University*
Nancy Hemmes, *Queens College, CUNY*
Norman Henderson*, *Oberlin College*
D. C. Heth, *University of Alberta*
Sally Hobson, *Adelphi University*
Jerry Hogan, *University of Toronto*
Peter Holland*, *University of Pittsburgh*
Eric Homan, *University of California, Los Angeles*
W. K. Honig*, *Dalhousie University*
Robert G. Jaeger, *SUNY, Albany*
H. J. James*, *Bell Labs, Indianapolis*
Herb Jenkins, *McMaster University*
Justin Joffe, *University of Vermont*
R. Johnson, *Ramapo College*
John A. Karpicke, *Valparaiso University*
Stephen Klein, *Old Dominion University*
E. A. Kohler, *University of Massachusetts*
Charles M. Locurto, *Holy Cross College*
Frank Logan, *University of New Mexico*
W. LoLordo, *Dalhousie University*
Robert Lubow, *Tel-Aviv University*
William S. Maki, *North Dakota State University*
Terry Maple, *Georgia Tech*
H. G. Marchant III, *University of Massachusetts*
Henry Marcucella, *Boston University*
W. Mason, *University of California, Davis*
James E. Mazur, *Yale University*
W. McAllister*, *Northern Illinois University*
James McHose*, *Southern Illinois University*
D. L. Medin*, *University of Illinois*
Charles J. Meliska*, *Monmouth College*
Roger L. Mellgren*, *University of Oklahoma*
E. Menzel, *SUNY, Stony Brook*
R. Miller*, *Pittsburgh University*
James R. Misanin*, *Susquehanna University*
Arlo K. Myers*, *University of California, Riverside*
David Olton, *The Johns Hopkins University*
J. Bruce Overmier*, *University of Minnesota*
L. Parker, *University of New Brunswick, St. John*
John Pearce, *Cambridge University*
C. C. Perkins, Jr., *Kansas State University*
Gail Peterson, *University of Minnesota*
Stanley Pliskoff, *University of Maine*
Henry C. Plotkin, *University College, London*
Howard Rachlin, *SUNY, Stony Brook*
Alan Randich*, *University of Iowa*
Betsey Rands, *Virginia Polytechnic Institute*
Douglas Reberg, *University of Western Ontario*
R. A. Rescorla, *Yale University*
S. Revusky*, *Memorial University*
David Riccio*, *Kent State University*
Ralph W. Richards*, *Colorado State University*
Anthony L. Riley, *The American University*
E. Riley, *SUNY, Albany*
Mark Rilling, *Michigan University*
Robert J. Robbins, *Michigan State University*
W. A. Roberts*, *University of Western Ontario*
H. L. Roitblat*, *Columbia University*
C. Rovee-Collier, *Rutgers University*
K. W. Rusiniak, *UCLA*
W. Ronald Salafia, *Fairfield University*
Eric Salzen, *University of Aberdeen*

Barry Schwartz*, *Swarthmore College*
Peter Serganian, *Concordia University*
M. E. Shanab, *California State University, Fresno*
Jack E. Sherman, *UCLA*
Sara J. Shettleworth, *University of Toronto*
Charles Shimp, *University of Utah*
Richard L. Shull, *University of North Carolina*
Alan Silberberg, *The American University*
A. D. Springer, *University of Illinois*
John E. R. Staddon, *Duke University*
Mark Stanton, *University of Texas, Austin*
R. J. St. Claire-Smith, *Wilfrid Laurier University*
Alan Stubbs, *University of Maine*
L. A. Syme, *University of Western Australia*
J. W. Ternes, *University of Pennsylvania*
Herbert S. Terrace*, *Columbia University*
S. W. Terry*, *University of North Carolina, Charlotte*
David R. Thomas*, *University of Colorado*
Donald M. Thompson, *Georgetown University*
R. K. R. Thompson, *Franklin & Marshall College*
P. J. Urcuioli, *University of Texas*
A. R. Wagner, *Yale University*
E. A. Wasserman*, *University of Iowa*
S. J. Weiss, *The American University*
Paul Weldon*, *University of Tennessee*
Robert L. Welker, *Mount Holyoke College*
Ben A. Williams*, *University of California, San Diego*
A. H. Winefield, *University of Adelaide*
Roy A. Wise, *Concordia University*
P. T. P. Wong, *Trent University*
Stephen Woods, *University of Washington*